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plication No.	Applicant(s)
/615.288	HAYAKAWA ET AL.
	Art Unit
at X. Cao	2814
REMAINS) CLOSED in this ther appropriate communicates. This application is subjection	e correspondence address application. If not included tion will be mailed in due course. THIS but to withdrawal from issue at the initiative
3. The drawings filed on 09 July 2003 are accepted by the Examiner.	
 4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	
	ply complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.	
submitted.	
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached	
1) hereto or 2) to Paper No./Mail Date	
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date	
ldentifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).	
7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.	
6. ☐ Interview Summa Paper No./Mail I 7. ☐ Examiner's Amer	Date
	aminer at X. Cao on the cover sheet with the REMAINS) CLOSED in this ther appropriate communicates. This application is subject MPEP 1308. The received in Application No ents have been received in the rec

Application/Control Number: 10/615,288 Page 2

Art Unit: 2814

REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance: the prior art of record fails to disclose the combination of a semiconductor device structure recited in the base claims, including the combination of the switching element structure comprising: a resistivity of the semiconductor substrate being 5 to 18 ohmcm; and a semiconductor region having a depth of 2.0 to 2.2 um along a depth direction of the semiconductor substrate and an impurity concentration of 1 x 10^14 to 1 x 10^18/cm3.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phat X. Cao whose telephone number is (571) 272-1703. The examiner can normally be reached on Monday - Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wael Fahmy can be reached on (571) 272-1705. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 10/615,288

Art Unit: 2814

Page 3

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PC

September 30, 2004

PHAT X. CAO